ZagNet User's Manual

The Definitive Guide to Gonzaga's Student Network

2000-2001 Edition

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Introduction and Welcome

Welcome to ZagNet, Gonzaga's student network. As a user of ZagNet, you have high-speed access to campus computing resources, the Internet, electronic mail, and the World-Wide Web. You also have a technical support team to assist you with using ZagNet should you encounter problems. ZagNet alleviates the need to use a modem to dial into the library or check your e-mail. You can now do that from the convenience of your computer without tying up your phone line.

What Comes with ZagNet?

ZagNet is the student network and support system. It includes network access to your residence hall, software for your computer, and technical support staff should you encounter problems. It also includes academic resources such as access to the library, Encyclopedia Britannica Online, and academic software on Barney, Gonzaga's academic server. You also receive an e-mail account that you retain your entire time at Gonzaga, a server to place your personal web page on, and Usenet, a global discussion network consisting of more than 10,000 discussion groups.

Where to Begin?

There are a couple of steps you should take to prepare to use ZagNet.

- Purchase and install a network card for your computer*
- Install the ZagNet software on your computer*
- Sign the Acceptable Use Policy**
- Pickup your e-mail account**

*Assistance in installation of the network card and installation of the ZagNet software is available during the first part of the semester Connection Central in the Crosby Center. For more information, contact the Help Desk at x5550.

**Signing the Acceptable Use Policy and picking up your e-mail account can be done at the orientation days at the beginning of school and in AD016 during the rest of the year between 10:00AM and 11:00AM. Extended hours are available the first two weeks of each semester.

Once you have your network card and ZagNet software installed, go through this manual to configure individual programs included with ZagNet. These include Internet Explorer 5.0, Outlook Express 5.0, QvtNet (PC) or NCSA Telnet (Mac), and Fetch 3.0 (Mac).

If You Need Assistance

If you require assistance with connecting to the network or using the included ZagNet software, contact the Help Desk at x5550 from 8:00AM to 4:30PM Monday-Friday.

ZagNet Support Services

Help Desk Information - x5550

As a part of ZagNet, Gonzaga University has a technical Help Desk. Students, faculty, and employees are able to call a single telephone number and receive help in solving computer related problems. Students who are having problems connecting to ZagNet can call the Help Desk staff, who will help them diagnose and solve basic network-related problems. If the problem can't be quickly resolved, and appears to be network-related, the Help Desk staff will initiate a work order and transmit it to desktop support staff who will work with the student to resolve the problem. In addition, the Help Desk staff track all unfinished work orders to ensure they are resolved. Students who are experiencing problems connecting their computers to ZagNet or the Internet, or using any of the supported applications, can send e-mail to helpdesk@gonzaga.edu or call x5550 to talk to a Help Desk staff member.

Supported Applications

ZagNet provides students with access to a broad range of electronic resources. Students are able to create their own web pages, electronically submit assignments, search the World-Wide Web for research and other materials, run academic software applications, communicate with others both on and off campus, and access scholarly research materials and electronic journals, all from the comfort and convenience of their rooms. Available resources include student e-mail, the World-Wide Web, academic software, LIBRIS - the Foley Center online library catalog, Encyclopedia Britannica Online, the Project MUSE electronic research journal collection, Bell and Howell s Proquest, and other Internet resources.

As a part of this network access, Gonzaga will provide students with limited support for computer and network software. Students who need help connecting to the ZagNet network and the Internet, or who have questions about using Internet Explorer, Outlook Express, QvtNet, NCSA Telnet, or Pine, should call the Help Desk at x5550 to receive help.

The university support staff will not be able to provide support for other hardware issues or software applications. For other software and hardware issues, students should call the vendor s support line for assistance.

Further Information

This manual is intended to provide a basic introduction to ZagNet services and applications. More extensive information is available in the electronic manuals for the applications and on Barney s web site at http://barney.gonzaga.edu.

Using the World-Wide Web

What is the World-Wide Web?

The World-Wide Web (the Web) is composed of hundreds of thousands of independent web servers containing millions of web pages that are loosely linked together. These web servers are owned and operated by companies, schools, organizations, the government, and individuals. There are nearly a dozen university operated web servers at Gonzaga alone. Because of the distributed nature of the Web and the Internet, the reliability of individual web servers may vary. What may be accessible one day may be down the next. Such is the nature of the Internet.

The Web contains information on almost every topic. Since the content of the Web is created by many individuals, many diverse opinions exist on the Web. Content is often governed by a policy at the location where the web server is located. This is the case with Gonzaga; any information that is placed on a web server at Gonzaga (whether university owned or private) is governed by Gonzaga s Acceptable Use Policy.

Using Internet Explorer 5 for Web Browsing

The most difficult part of using Internet Explorer as a web browser is understanding how the World-Wide Web works. By understanding the basics of how to access documents on the Web, you are well on your way to utilizing the most common features of Explorer.

Understanding URLs

URLs (Universal Resource Locators) are the addresses of the Web. URLs are used to describe the location of web pages on the Internet. Using a URL, you can locate any web page on the Internet. The structure of a URL is fairly simple: it consists of a protocol identifier, a server address, and a web page name. For example, the URL **http://www.gonzaga.edu/zagnet/index.html** specifies the hypertext transfer protocol (http), the www.gonzaga.edu web server, and the web page named /zagnet/index.html (/zagnet/ is the path to the file) on the www.gonzaga.edu web server. There is typically a default web page on each web site that alleviates the need to specify a web page name unless you want to go to a specific page on that web server. For example, the URL **http://www.gonzaga.edu** will automatically load the default web page on the www.gonzaga.edu server.

Since a URL is the unique address to a web page, to go back to a web page in the future, the only thing you have to remember is the URL. Explorer will use the URL to locate the web page and reload all of the data for that web page. By keeping a list of URLs, you can easily return to pages you have visited before. You can also send a person a URL via e-mail and the other person can use the URL in their copy of Explorer or any other web browser and load the same page you saw.

Loading a Web Page using a URL

If you have the URL for a web page, you can easily go to that web page using Explorer. To load a web page using a URL, do the following:

- 1. Launch Internet Explorer.
- 2. Select Open... from the File menu.
- 3. Enter the URL to open and click OK.

Explorer will attempt to contact the web server where the web page described by the URL is located. If the web server is busy, unavailable or doesn t exist, Explorer will report an error. If this happens verify that you entered the URL correctly and try again or wait and try again later.

Links

One of the most powerful features of the World-Wide Web (and the reason that it s called a web) is the ability for one web page to link to another web page. A link is created by embedding a URL within a web page. These links to other pages are normally indicated on the web page as underlined colored text (typically blue). By clicking on the link, Internet

 ZagNet Information

 ZagNet Documentation

 Barney - Accessing E-Mail with IMAP

 Barney - Accessing E-Mail with IMAP

 Barney - Documentation

 Computer Lab Information

 Accessing Usenet News

 Download applications from local FTP server

 Creating Mailing Lists at Gonzaga

 pre information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way! I'm always open to new ideas so if an information is on the way!

computer labs and other really cool things. No doubt you will wa wser. If you have any questions, feel free to e-mail me at <u>francis(</u>

Explorer will attempt to locate the server for the link s URL and load the new web page. This is just as if you had manually entered the URL in the Open dialog box.

These links are not limited to linking to other web pages. They can also refer to an e-mail address, a file to be downloaded, an audio or video clip, etc. These are all special forms of URLs that help make the World-Wide Web a rich environment. For example, the Downloads web page on Barney (http://barney.gonzaga.edu/tech/download.html) is a list of links that will download files from Barney through anonymous FTP if they are clicked on.

Bookmarks

There are millions of web pages on the World-Wide Web. Among those, you will find a number of pages that you want to return to later. Rather than write down the URL and manually enter it each time you want to go to that web page, you can create a bookmark for that page. A bookmark remembers the URL and the title of the page and stores this information in a bookmark file. These bookmarks are available under the Favorites menu.



To add a web page to your bookmarks, do the following:

- 1. Go to the web page you wish to bookmark.
- 2. Select Add to Favorites from the Favorites menu.

Once you ve added a bookmark to your Favorites menu, all you need to do to go to the web page you ve bookmarked is to select the bookmark from the Favorites menu.



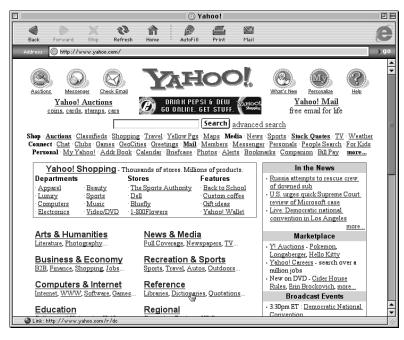
After you have accumulated a large number of bookmarks, you may find that the Favorites menu gets cluttered. You can clean up the Favorites menu by selecting Organize Favorites from the Favorites menu. This will open a window that will allow you to delete old bookmarks and arrange bookmarks into folders (folders show up as sub-menus within the Favorites menu).

Finding Information on the World-Wide Web

As mentioned earlier, the World-Wide Web contains millions of web pages that are constantly changing. Because of this, locating information could be difficult. Fortunately, there are a number of search engines on the World-Wide Web that make it easy to search the Internet. These search engines are constantly searching the Web for new or changed web servers and pages. The

information they find is added to their databases which are indexed for easy and fast searching.

Using any of these search engines, you can do a keyword search that will effectively search millions of web pages in just a few seconds. The search engine returns a list of links that match your search criteria. The better the search criteria you enter, the better the search results. For example, searching for Word help would return many thousands of hits but searching for Microsoft Word printing problem makes the search more specific.



Here are some search engines you may find useful:

http://www.altavista.com	http://www.go.com
http://www.yahoo.com	http://www.lycos.com

Yahoo (http://www.yahoo.com) has an extensive list of search engines on their web site. To find the list, go to Yahoo and search for search engines.

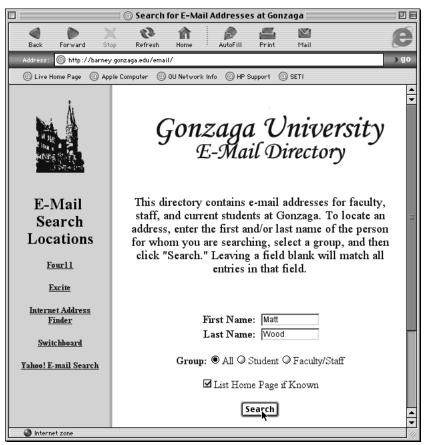
Finding E-Mail Addresses on the Web

While there is no master directory of e-mail addresses on the Web, many organizations maintain online e-mail directories for their employees and for universities, their students. Gonzaga provides such a directory at http://barney.gonzaga.edu/email. This page also has links to several sites that search the Internet for e-mail addresses and add them to their databases similar to how web search engines build their databases.

If you are looking for the e-mail address of a specific person, you can see if the company they work at or the school they attend has an online directory like Gonzaga s. You can also search one of the national e-mail directories for their name and e-mail address or you can even search one of the web search engines like Alta Vista or Yahoo for their name.

For More Information on Internet Explorer

Internet Explorer and the World-Wide Web have many features that cannot be included in such a short



introduction. For information on these features, use Explorer s built-in help system. To access help, use the Help menu inside of Internet Explorer.

Configuring Outlook Express 5.0

Requesting an E-Mail Account

It is recommend that you already have your e-mail account before configuring Outlook Express. Accounts are available both Saturday and Monday of Fall orientation weekend on the 2nd floor of the Crosby Student Center. During the rest of the year, they are available in AD016 during normal working hours.

What is Outlook Express 5.0?

Outlook Express 5.0 provides e-mail, Usenet news, and directory service access. It can compose messages in html and plain text formats, has an integrated spell checker, and a powerful address book. The next three chapters will cover the configuration and use of Outlook Express. This chapter will go through the configuration, the next will discuss reading and composing mail, and the final chapter will discuss reading Usenet news using Outlook Express.

It is highly recommended that you use Outlook Express 5.0 or later. The ZagNet installation process will install Outlook Express 5.01 for Windows or Outlook Express 5.02 for Macintosh. These later versions have much better support for IMAP and have more extensive features than earlier versions.

POP or IMAP Mail Protocol

Gonzaga's student mail server, Barney, supports two types of mail protocols, POP (aka POP3) and IMAP. When you configure Outlook Express, you will need to select either POP or IMAP. This won't effect how your mail is sent or looks, but it will change where it is stored. You can always change your mind and switch the protocol you want to use later.

The primary difference between POP and IMAP is that POP downloads all your messages from the mail server to your local hard drive and then deletes them from the mail server. IMAP keeps the mail on the server and downloads only those messages you click on to read.

POP s primary advantage is that all of your messages are downloaded at once. It can also be configured to periodically check the mail server for new mail. Since it connects only periodically, any mail that has already been downloaded to your local computer can be read even if the network is down or the mail server is offline. The disadvantage of POP is that once the messages are downloaded to your local hard drive, you can t read the downloaded mail from another computer (e.g., another room or from a computer lab). This disadvantage can be diminished by turning on the Leave messages on server option but this means that you re keeping two copies of every message; not very economical.

IMAP is a newer protocol that was designed with the premise that the client computer (you) are always connected to the network and that the mail server is always available. It keeps all of the messages on the mail server and only downloads the header information for the mail messages (subject, sender, recipient, and length). When the user clicks on a message, IMAP downloads the rest of the message from the mail server for display but doesn t delete it from the server. IMAP also allows you to utilize mail folders on the server for filing messages. These folders are compatible with Pine so that all of your mail is available not only from Outlook Express, but from Pine and through the web (coming January 2001) as well. This is advantageous if you want to be able to read and file mail from other computers besides your own, including computers off-campus. The disadvantage of IMAP is that it is slightly slower than POP because it must retrieve messages from the mail server rather than from your local hard drive.

POP is recommended for those users that are going to primarily read their e-mail from one computer. It is also recommended for those users that have older computers. IMAP is recommended for those users that want full access to their e-mail regardless of the computer they are using. More information on IMAP and POP can be found at http://www.imap.org.

A Note Regarding Outlook Express 5.02 for Macintosh

The following configuration guide deals primarily with the configuration of Outlook Express for Windows. The Macintosh client offers similar functionality but the layout of the windows and the configuration options are slightly different. The following instructions should be sufficient to configure the Macintosh client as well.

Configuring Outlook Express 5.0

The configuration for Outlook Express is easiest when using the Internet Connection Wizard. The wizard runs automatically when Outlook Express is launched for the first time. After the initial account is created, a new account can be added by selecting Accounts from the Tools menu in Outlook Express and then clicking on the Add button in the Internet Accounts window that appears and selecting Mail. You can also modify the settings for your account by opening the same Internet Accounts window.

The information you will be entering includes your e-mail address and name, various server addresses, and other details. Multiple users can use the same computer by creating multiple Identities. This manual does not include instructions on setting up identities or other advanced options. Refer to the Help menu in Outlook Express for information on additional configuration options.

Configuring E-Mail

To configure Outlook Express, do the following:

1. Launch Outlook Express.

You may receive a warning that Outlook Express is not your default mail client. If you are only using Outlook Express on this computer, you will probably want to make it the default mail client.

2. Enter your name and then click the Next> button.

If Outlook Express launches directly to its main window, at least one account has already been created. A ZagNet technician or someone else may have already created the account for you or Outlook Express might have been installed and configured prior to your arrival at Gonzaga. You can see whether you already have the account configured by selecting Accounts from the Tools menu, clicking on the Mail tab, and examining the list of mail accounts. If you already have one setup then, you can probably ignore the remaining steps.

If you aren t sure, create a new account by selecting Accounts from the Tools menu, clicking on Add button in the Internet Accounts windows, and selecting Mail.

3. Enter your e-mail address and click Next>.

Note: If you don t have an e-mail address yet, you will not be able to proceed further with the configuration of Outlook Express.

4. Select your preferred method for downloading e-mail from Barney.

Note: IMAP is recommended unless you will only be reading mail from this computer.

5. Enter barney.gonzaga.edu as the incoming and outgoing mail server and then click Next>.

-mail Server Names		
My incoming mail <u>s</u> erver is a MAP	server.	
Incoming mail (POP3, IMAP or HTTP) barney.gonzaga.edu	server.	
An SMTP server is the server that is u Outgoing mail (SMTP) server:	ised for your outgoing e-mail.	
barney.gonzaga.edu		

6. Enter your mail server username and then click Next>. This is your login name on Barney (e.g., francis or msmith7).

Warning: At this point, you can elect to enter and save your password. If you choose to do this, anyone that has access your computer will be able to read and send e-mail as you.

7. Click Finish to save your mail account settings.

If this is your first account in Outlook Express, you will be given the option to import information from other mail clients. Unless you have information you want to import, simply click Next> and then Finish to skip importing information from other mail clients.

- 8. If you selected IMAP as your mail server type in step 4 above, do the following steps. If you selected POP3, skip to step 9.
 - a. Click No when asked if you want to download a list of folders.
 - b. Select Accounts from the Tools menu.
 - c. Double-click on the barney.gonzaga.edu mail account.
 - d. Click on the IMAP tab.
 - e. Uncheck Check for new messages in all folders.
 - f. If you want to save your sent mail on Barney, check Store special folders on IMAP server and enter sentmail as your Sent Items folder and drafts as your Drafts folder.

😪 barney. gonzaga. edu l	Properties	? ×
General Servers Conne	ction Security Advanced	IMAP
Folders		
Root folder path:		
Check for new mes	sages in all folders	
Special Folders		
Store special folder	s on IMAP server	
S <u>e</u> nt Items path:	sentmail	
Drafts path:	drafts	
	OK Cancel	Apply

Note: The good thing about keeping your outgoing mail in a folder on Barney is that it will be accessible from anywhere. The downside is that it will take longer to send messages and it will count toward your 40MB disk limit on Barney.

- g. Click OK to save your settings.
- h. Click Close to close the Internet Accounts window.
- i. When asked if you want to refresh your folder list, click Yes.
- j. Enter your password and click OK.

Note: If you have requested your account, but it hasn t been created yet, you will receive an error that you could not connect to your account on Barney.

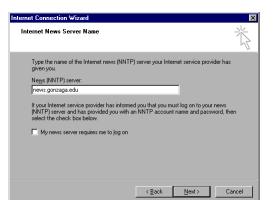
Configuring Usenet News

9. Select Accounts from the Tools menu.

- 10. Click on the Add button and select News.
- 11. Verify your name and click Next>.
- 12. Verify your e-mail address and click Next>.
- 13. Enter news.gonzaga.edu as your news server and click Next>.
- 14. Click Finish.

Configuring Gonzaga White Pages (Directory Services)

- 15. Click the Add button and select Directory Service .
- 16. Enter whitepages.gonzaga.edu as the LDAP server and click Next>.
- 17. Click on Next> to skip auto-checking of addresses.
- 18. Click Finish.
- 19. Double-click on whitepages.gonzaga.edu to make additional changes.
- 20. Change the descriptive name to Gonzaga White Pages.
- 21. Click on the Advanced tab.
- 22. Set the Search Base to o=Gonzaga University, c=US.
- 23. Click OK to save the changes.
- 24. Click Close to close the Internet Accounts window.



🚇 whitepages.gonzaga.edu Properties 🔹 😯
General Advanced
Server Port Number
Directory service (LDAP): 389 Use Default
This server requires a secure connection (SSL)
Search
Search timeout:
Short - J Long 1 minute
Maximum number of matches to return: 100
Search base: o=Gonzaga University, c=US
Use simple search filter

Note: You will now be asked if you want to download the current list of newsgroups. If you choose to do so, you will also be given the opportunity to subscribe to newsgroups.

At this point, you have configured Outlook Express to read and send electronic mail, access Gonzaga s Usenet news server, and to be able to query Gonzaga s directory service to lookup e-mail addresses for people at Gonzaga. To learn how to use these services, go to the appropriate chapters in this manual or use Outlook Express help system.

Using Electronic Mail (Outlook Express)

Electronic mail, more commonly referred to as e-mail, is one of the oldest and most popular uses of the Internet. Gonzaga s electronic mail system allows you to communicate with other students, faculty, and staff on campus and anyone that is connected to the Internet, either directly or through an online service such as America Online. Electronic mail has historically been the most popular network service at Gonzaga.

Students are provided a number of e-mail clients to choose from. The two supported clients are Outlook Express and Pine. Pine is a text-based mail program on Barney accessed using telnet and is described in the section Using Electronic Mail (Pine). Outlook Express is a free graphical client available from Microsoft for both the Macintosh and Windows that also includes a Usenet client and other capabilities.

This document will provide some basic information regarding e-mail and will also provide information on using Outlook Express to read and compose e-mail.

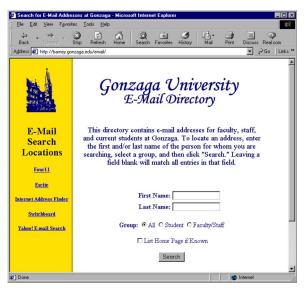
Your E-Mail Address

Everyone at Gonzaga has the option of getting an account on Barney. For those that are using these accounts for e-mail, their e-mail address is **userid@gonzaga.edu** where userid is your account name. For example, if my name was Jane Doe and my userid (account) was jdoe, my e-mail address would be jdoe@gonzaga.edu. Students using other servers would put the server name and domain after the @. As an example, if Jane were on the Grace server in Computer Science, her address would be jdoe@cps.gonzaga.edu. Most students will use Barney as their e-mail server so their address will end with @gonzaga.edu.

Locating an E-mail Address for Someone at Gonzaga

It is often desirable to locate another person s email address to send them mail. Gonzaga has a search engine on the Web and on Barney to look for someone s e-mail address based on either their first or last name. The web-based search is at http://barney.gonzaga.edu/email.

If you telnet into Barney, you can type mailid *keyword*, replacing *keyword* with a portion of the person s name (e.g., mailid jane would list all of the Janes at Gonzaga).



Gonzaga also has something called the Gonzaga White Pages. These white pages can be searched from either Outlook Express or from within Pine.

To search the white pages from within Outlook Express, do the following:

1. Click on the Addresses icon in the main Outlook Express menu.

The Address Book window will appear.

- 2. Click on Find People icon in the Address Book window.
- 3. Select Gonzaga White Pages from the Look in popup menu.

Note: If Gonzaga White Pages isn t listed, go to the section titled Configuring Outlook Express 5.0 to add the directory (step 15).

👪 Find Peop	le	? ×
Loo <u>k</u> in:	Gonzaga White Pages	W/eb Site
People Ac	Ivanced	
Name:	carriker	Eind Now
<u>E</u> -mail:		Stop
<u>E</u> nidii.		Cļear All
		Close

3. Enter part of the name of the person you want to search for in the Names field. For a more advanced search click on the Advanced tab.

Note: Students that have requested confidentiality will not appear in the e-mail directory. If you are on the directory and would like to be removed, contact Greg Francis at x6896 or francis@gonzaga.edu.

4. Right-click on the person you would like to send mail and select Send Mail from the Action sub-menu. A dash in place of their e-mail address indicates the person doesn t have a known e-mail address.

Checking and Reading Mail in Outlook Express (POP3)

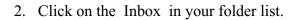
When using POP3, your mail must be downloaded from Barney to your local computer before it can be read. Once it is on your local computer, it can be read, replied to, filed, and/or deleted. All mail folders are stored on your local hard drive. All new mail is downloaded from Barney into your Inbox folder.

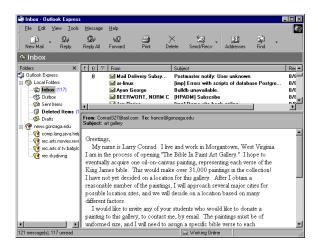
You can either have Outlook Express check mail for you automatically (see Options under the Tools menu) or you can force it to check for mail by clicking on the Send/Recv in the main window. Outlook Express must be running on your computer in order for it to automatically download mail.

If you have new mail on Barney, Outlook Express will download all of the mail to your local computer. If the messages are long or contain file attachments, this may take a few moments. The status bar at the bottom of the main window will indicate how many read messages you have..

To read the mail in your Inbox, do the following:

1. Launch Outlook Express.





- 3. If you check mail manually, click the Send/Recv button to download your new mail.
- 4. Click on the message that you want to read. The text of the message will appear below.
- 5. Once you ve read the message, you can delete it by clicking on the Delete icon at the top of your Inbox window or you can file it into another folder by clicking on the File icon.

Note: It is recommended that you either delete the mail from your Inbox or file it to another mailbox if you want to keep it for later use. This keeps your Inbox uncluttered and will help it respond quicker, especially on older computers.

Creating Folders for Storing Mail (POP3)

You can create additional folders to file your mail in so it doesn t clutter your Inbox. This is useful because it also allows you to group all the mail for one topic or person into a single location. To create a folder, do the following:

- 1. Right-click on Local Folders and select New Folder.
- 2. Enter the name of the new folder and click OK.

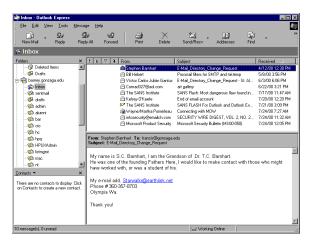
The folder will now be listed in your folder list under Local Folders. To save messages into this folder, just drag the message from its current folder to the new folder.

Checking and Reading Mail in Outlook Express (IMAP)

When using IMAP, portions of your mail will reside on the remote server (Barney) and portions can reside on your local drive. This allows you the maximum flexibility when using Outlook Express but it can also be somewhat confusing as well.

Reading and filing mail with IMAP is nearly identical to using POP3 with the exception that IMAP adds an additional folder set to your folder list. This folder is called barney.gonzaga.edu. It contains your Inbox on Barney and any mail folders you have on Barney as well. Any folder in here is also going to be accessible from Pine. Folders that reside in Local Folders are on your local hard drive and cannot be accessed by Pine.

To read your mail, follow the same steps as you would for reading POP3 mail above but open up



the Inbox in barney.gonzaga.edu instead of the one in Local Folders. The same applies for creating mail folders and filing mail. You can create mail folders either on Barney or your local drive. If you want it to be available from Pine, create the folder in barney.gonzaga.edu.

Composing New Mail

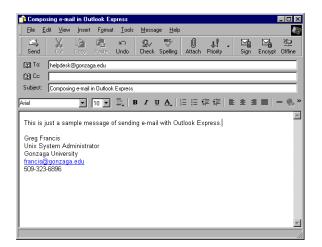
Outlook Express makes it easy to compose new e-mail messages. It includes an address book feature, the ability to easily attach files to messages, and also the ability to copy text from a word processor directly into an e-mail message.

To create a new message, do the following:

- 1. Launch Outlook Express.
- 2. Click the New Mail icon or select Mail Message from the New sub-menu of the File menu.

An empty message window will appear.

3. Enter the recipient s address in the To: field. To enter multiple addresses, just press the Enter key; Outlook Express will add additional lines as needed.



If you don t know the person s address and they are at Gonzaga, you can select Address Book from the Tools menu to search Gonzaga s White Pages. See the instructions earlier in this chapter for more information.

- 4. Enter the subject of the message in the Subject: field.
- 5. Click in the body of the message and either type the message or copy and paste the message from another program.
- 6. If you wish to attach a file to the message, do the following:
 - a. Click on the Attach icon at the top of the message window.
 - b. Locate the file you want to attach, highlight it and click Attach.
- 7. Click on the Send button in the message window to send the message.

Creating a Signature

A signature is a block of text that is appended to the end of new messages. A signature is usually used to provide information about the person sending the message. People often include e-mail addresses, phone numbers, employer, titles, and cute little quotes in their signature. To create a signature in Outlook Express, do the following:

- 1. Select Options from the Tools menu.
- 2. Click on the Signatures tab in the Options window.
- 3. Click on the New button to create a new signature.
- 4. Enter the text of the signature in the Edit Signature block at the bottom of the window.
- 6. To include your signature on all outgoing mail, check the Add signatures to all outgoing messages checkbox.
- 7. Click OK to save your new signature.

For More Information

Security Connection General Read Send Compose Spelling Add signatures to all outgoing messages Don't add signatures to Replies and F Hnix Sus Admin Default signature New <u>R</u>emove Rena<u>m</u>e Edit Signature ⊙ <u>⊺</u>ext Greg Francis Unix System Administrator Gonzaga University francis@gonzaga.edu ÷, Ad<u>v</u>anced... O <u>F</u>ile OK Cancel Apply

Outlook Express includes many additional features that you may find useful. To learn more about these features, use Outlook Express help system available under the Help menu.

<u>Using Usenet News</u>

What is Usenet?

Usenet is a network of thousands of servers on the Internet that house thousands of discussion groups called newsgroups. Each server can be configured to carry a select number of the newsgroups or all of the newsgroups. These news servers periodically connect with one another to pass along any new articles that were created on its server or that were passed to it by another news server. Because of this distributed architecture, an article posted on Usenet may take several days to be distributed to all of the news servers that carry the newsgroup where the article was posted.

Gonzaga s news server carries approximately 10,000 of the most commonly read newsgroups of the more than 35,000 newsgroups on Usenet. Most of the other newsgroups are either regional, for companies, or for a very specific group. Requests for adding a newsgroup that Gonzaga doesn t carry can be sent to Greg Francis at francis@gonzaga.edu. As an example, the Seattle newsgroups were added at the request of someone from the Seattle area. Newsgroups designated for the posting of files such as music or images will not be carried because of the excessive disk space required to store the files.

What is a Newsgroup?

A newsgroup is a discussion area on Usenet that was created for the posting of a specific topic. Topics can be anything; examples include artificial intelligence, the show Friends, politics, and skydiving. Many of these newsgroups are purely for entertainment while others can yield valuable information for research projects. One thing to remember about newsgroups is that anyone can post to them; this means all information on Usenet should be questioned and verified.

In addition to the Usenet newsgroups, there is a set of newsgroups that are local to Gonzaga. Each of these newsgroups begin with gu. to indicate it is local to Gonzaga. Anything posted in one of these groups is not distributed outside of the university. Topics for the Gonzaga newsgroups include announcements, events, and the sale of textbooks and other items. Clubs and other campus organizations can request a newsgroup of their own by contacting Greg Francis at francis@gonzaga.edu.

To make finding newsgroups easier, newsgroups are given names that group them into categories and subcategories. For example **rec.skydiving** means the subject of **skydiving** in the **rec**reation category. Newsgroup names can get fairly complex; for example **rec.arts.sf.tv.babylon5.info** is for information on the science fiction television show Babylon 5. Fortunately, newsgroup names are searchable making it much easier to locate topics of interest.

A Note about Usenet Etiquette

Since articles posted to Usenet are distributed to thousands of news servers around the world and can be read by millions of people, it s important that users understand how to post correctly and that they understand proper Usenet etiquette. Before posting, you should look at the articles in **news.announce.newusers** and **news.answers**. One particularly good article is *A Primer on How to Work With the Usenet Community* by Chuq Von Rospach. This article is posted frequently in both news.announce.newusers and news.answers; it is also located on Barney s web site at http://barney.gonzaga.edu/tech/usenetcommunity.html.

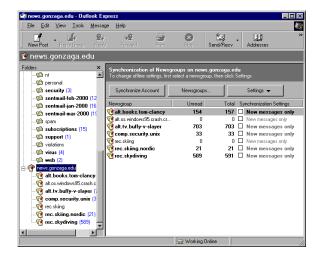
Breaking the rules of Usenet can result in a lot of hostile mail (called flames) from other users on Usenet. Using Usenet can be fun and informative but it s important to be knowledgeable about posting and be prepared to have your opinions blasted by others that disagree with you.

Using Outlook Express to Read Usenet News

Outlook Express is capable of connecting to a Usenet news server and downloading articles to read. The following instructions assume that you have already set up the news server (news.gonzaga.edu) when configuring Outlook Express in Chapter 5 of this manual. Another newsreader called tin is available if you telnet into Barney.

To read articles in Usenet news, do the following:

- 1. Open Outlook Express.
- 2. Click on news.gonzaga.edu in the folder list.
- 3. Expand the newsgroup list by clicking on the minus sign next to news.gonzaga.edu on the PC or the small triangle on a Mac.
- 4. To read the articles in a newsgroup, click on the name of the newsgroup you want to read.



Note: If you aren t currently subscribed to any newsgroups, Outlook Express will ask you if you want to download a list of newsgroups.

Outlook Express will download the articles for the newsgroup you clicked on. The window will be divided into two panes, the top pane will list all the articles in the newsgroup and the bottom pane will show the text of the currently selected article. Unread articles will be bold text and previously read articles will be plain text.

5. To read an article, click on the article subject.

Note: Articles with the same title are grouped into a thread to make it easier to follow the discussion. Threads are indicated by a plus sign (PC) or a triangle (Mac). A thread can be expanded or contracted by simply clicking on the appropriate symbol.

6. To reply or post a response to the current article, select the appropriate reply type from the Message menu.

Your response can be sent back to the original poster, to the newsgroup itself, or both.

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New Post Reply Group Rep		end/Recv Addresses
🔞 rec.skydiving		
Folders ×	9 3 Oro Subject	From
Import Import Import	Re: My Raven save stor Safety Re: My Raven save stor Safety Re: safety	
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Once you ve completed your message/article, send it by clicking on the Send button.

7. If you want to post a new article, click on the New Post button.

Subscribing to Newsgroups

You can read the articles within a newsgroup whether you are subscribed to the newsgroup or not; subscribing to a newsgroup just makes the newsgroup easier to access. Subscribing to a newsgroup tells Outlook Express to list the newsgroup in your folder list and to keep track of which articles you ve read. It does not mean that you will receive mail from the newsgroup nor does it inform anyone else that you are subscribed to the newsgroup. You can subscribe or unsubscribe to a newsgroup at any time.

ant(s):

skiina

To subscribe to a newsgroup:

- 1. Launch Outlook Express.
- 2. Click on news.gonzaga.edu in the folder list.
- 3. Click on the Newsgroups button in the right pane.

S Subscribe alt.h2pcr2me.skiing.anno. alt. hipcrime. skiina. annou <u>R</u>eset List <u>G</u>o to OK

Also search descript

groups which contai

A Newsgroup Subscriptions window appears that lists all the newsgroups on the current news server (in this case, news.gonzaga.edu).

- 4. You can either enter a filter in the Display newsgroup that contain box or you can scroll through the list to select a newsgroup.
- 5. Click on the newsgroup(s) you want to subscribe to and click subscribe.

? X

6. Once you are done subscribing to newsgroups, click the OK button.

While there are many thousands of groups, there is not one for every topic imaginable so you may not be able to find the topic you are interested in. If that s the case, you might look for a more general topic newsgroup that would be appropriate for the discussion of the topic you have in mind.

Unsubscribing from Newsgroups

If you are no longer interested in reading a particular newsgroup, you can easily unsubscribe from it. To unsubscribe from a newsgroup, simply click on the newsgroup name in the folder list, right-click and select Unsubscribe from the pop-up menu. This will remove the newsgroup from your folder list and delete any information about the newsgroup from Outlook Express.

Dealing with High Volume Newsgroups

When you re reading a newsgroup, there will often be messages that you don t read. This is especially true on high volume groups that can receive hundreds of new articles a day. To reduce the clutter of a high volume newsgroup, you can mark all the articles as read and then only view unread articles. This will reduce the total number of articles listed, making it much easier to browse through.

To hide read articles, do the following:

- 1. Open the newsgroup and read the articles you are interested in.
- 2. When you are done reading articles, Mark All Read from the Edit menu.
- 3. Next time you open the newsgroup for reading, select Hide Read Messages from the Current View sub-menu of the View menu.

This will hide all the previously read articles.

A Note about Usenet and Spam

Because of Usenet s distributed nature, it is a prime target for spammers to post their spam on and to harvest e-mail addresses to mail spam to. Every time you post an article on Usenet, your e-mail address is being distributed all over the world to thousands of servers. Spammers collect the e-mail addresses of Usenet posters and add them to their spamming lists. We attempt to block spam coming into Gonzaga, but posting to Usenet will increase the likelihood that you will receive spam messages.

<u>Using Telnet</u>

Telnet is a method of connecting to a server and accessing the server s resources remotely. Access is usually text-based and requires some knowledge of the system you are connecting to. At Gonzaga, Barney and Grace can all be accessed using telnet. In order to use the applications on Barney or Grace, you must use telnet. Barney e-mail is available through telnet (Pine), POP, and IMAP (both Outlook Express).

The ZagNet software includes a telnet client for you to use. Students with PCs will use QvtNet and Macintosh users will use NCSA Telnet. Configuration of the software is different on the two platforms but once you are connected to a server (e.g., Barney), the commands are all the same since the commands are being executed on the remote server, not the local machine.

A Typical Telnet Session

A telnet session begins by connecting to remote server, logging into the server, executing commands on the server and then logging out of the server. The following is the list of steps required to log into Barney that will work with any telnet client. The specific commands required for individual telnet clients will vary from client to client.

To connect:

- 1. Launch the telnet client.
- 2. Open a new session.
- 3. Enter the name of the server you want to connect to (e.g., barney.gonzaga.edu) and begin the session.
- 4. Log into the remote server using your account (Barney or Grace).

Once you are connected, you will typically have a command line on which to type commands. These commands are then executed on the remote server. Any files, messages, etc. you see are on the remote server, not your computer.

To disconnect:

- 1. Normally you will type a command to disconnect from the system. On Unix systems such as Barney and Grace use the command exit. Other systems may use different commands such as logout or quit.
- 2. Quit the telnet client.

Using Telnet Clients Included with ZagNet

QvtNet (Windows)

The following are instructions for using QvtNet to telnet.

To open a connection to Barney or Libris (Library):

- 1. Launch terminal in Start->QvtNet.
- 2. Select Open from the File menu to bring up the Open Session window.
- 3. Type barney or foley and then click OK.

To open a connection to any other remote server:

- 1. Launch terminal in Start—>QvtNet.
- 2. Select Open from the File menu to bring up the Open Session window.
- 3. Type the remote server you want to connect to and click OK.

NCSA Telnet (Macintosh)

barney	default Barney	Cancel
		Help

NCSA Telnet comes preconfigured for accessing Barney and Libris (Library) and does not require any additional configuration. Opening a connection to Barney and Libris are as easy as selecting a menu item.

To open a connection to Barney or Libris (Library):

- 1. Launch NCSA Telnet.
- 2. Select the remote server from Open Special under the File menu.

To open a connection to any other remote server:

- 1. Launch NCSA Telnet
- 2. Select Open Connection... from the File menu.
- 3. Type the remote server you want to connect to and click Connect.

Open Connection	ж0	chì
Open Special		<default< th=""></default<>
Close	жЦ	Barney
		Library
Load Set		
Save Set		
MacBinary II Enabl	led	
Show FTP Log		
Print Selection	жP	
Page Setup		

Using Electronic Mail (Pine)

General Information

Pine is an e-mail program located on Barney and is accessible through any telnet application that supports VT100 terminal emulation or better. The primary benefit of Pine over other e-mail programs is that it is accessible from anywhere on the Internet. Whether you are in Spokane, Florence, or at home, if you have Internet access, you can get to Pine.

Pine help is context-sensitive. In other words, each Pine screen you use will have its own help text, explaining the choices available for that screen. Pressing the ? key (^G when composing) will display the help screen for the screen you are currently viewing in Pine. The bottom two lines of the screen are used to list the commands currently available. If there are more commands available than will fit on a screen, the O key will page through the list of available commands.

When composing mail, and in a few other places in Pine, you have to use control keys. Control keys are entered by pressing the $\langle CTRL \rangle$ key and the appropriate letter key at the same time. In Pine, control key commands are shown as a $^{\wedge}$ followed by a letter key. For example, X would mean that you need to press the $\langle CTRL \rangle$ key and the X key simultaneously.

Electronic Mail Addresses

Each user on the Internet has a unique address. This address is composed of the user s account followed by an *ⓐ* and then the server where the account is located. For example, if a user had an account of horatio on a server known to the Internet as iea.com, their address would be horatio@iea.com. The user s account does not have to correspond to the user s name.

Most users at Gonzaga have an Internet address of *username@gonzaga.edu*. For students, the account is usually their first initial followed by the first seven characters of their last name. For faculty, the first eight characters of their last name are used for their account. This will depend upon whether or not there are people with similar names. When addressing mail to someone at gonzaga.edu, only the account name is required.

Gonzaga provides several ways to look up student and employee e-mail addresses. User s can search the web at http://barney.gonzaga.edu/email, type mailid followed by a person s name while at the \$ prompt in Barney, or search the Gonzaga White Pages through Pine (see below).

Entering and Exiting Pine

To run Pine, simply enter the command pine at the [*username*]\$ prompt. This will take you to Pine s main menu. From there, you can press I to go into your INBOX folder.

Typing Q from most places in Pine will exit Pine and return you to the [username]\$ prompt.

Pressing ^Z in Pine will temporarily suspend Pine. Typing fg at the [*username*]\$ prompt will resume a suspended Pine session. This is useful for users that often use the unix command line for programming, viewing files, and other tasks.

Reading Your E-Mail

The INBOX message index is your mailbox in Pine. This is where any new mail will appear. Any mail you have read will remain here until you either file it to another folder or delete it. A + in the first column of the message index means that the message marked is addressed specifically to you. If no + is shown, you are not the primary recipient of the message. The two most common reasons for receiving a

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Γ		PINE	4.02		1ESSAGE INDEX		Folder: INBOX Message 4 of 32 NEW
					Mail Delivery Subs		Returned mail: User unknown
					cnguye22@csc.com		[HPADM] RE: FTP Sub Login
l.					cnguye22@csc.com Bernard Becker		[HPADM] RE: Are there any diff betwee Re: What is this MAC address?
I.					Joan Allbery		More ZagNet Information
					cnguue22@csc.com		[HPADM] Re:How to set up FTP Sub Logi
11					CERT Advisory	(14,934)	CERT Advisory CA-98.10 - mime_buffer_
Ш.					Andrew Remien		August 12 Info Line/ Validation Day m
Ш.					Rob.Lowein@barclay		[HPADM] RE: Y2K PATCHES
Ш.					ntsecurity-digest		ntsecurity-digest V3 #268
Ш.					twiztah Dale Bogle		SECURITY: new apache packages now ava Re: rc006.gonzaga.edu
					Theresa Ketchum		Re: daus
Ш.					Theresa Ketchum		/u02 and /opt
Ш.					humnews-owner@hcl.		Hummingbird E-News August 1998
Ш.					Patrick Oonk		Source Back Orifice Unix client relea
Ш.		1	7 Aug	10	ntsecurity-digest	(56,557)	ntsecurity-digest V3 #267
Ш.					Jay Brunker		[HPADM] ulimit and eron problem
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IF	4	I	r onb		to rewriags 📓 nex uis	-9 21 2	
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message not addressed specifically to you is if the message is from a mailing list you are a member of or if the message was CC d (carbon copied) to you.

Choose the message you wish to read by highlighting it using the up or down arrow keys. Once the appropriate message is selected, press the > or <ENTER> key to view the message. To scroll through the message, you may use the arrow keys, or the - key for the previous page and the space bar for next page of a long message.

While you are either reading the message, or while you have the message highlighted in the index, you may press R to reply to the message, F to forward the message, or D to delete the message. Messages marked for deletion will not be purged until you exit Pine. You may undelete a message that hasn t been purged yet by pressing the U key. If you do not delete the message, or move it to another folder, it will remain in your INBOX folder.

To return to the index of mail, press I. Pressing P will move you to the previous message and N will move you to the next message in your INBOX.

Creating/Using Folders

Pine gives you the opportunity to create folders to store your messages in other than the INBOX folder. To create a folder, press L to list your folders. At this point, a new screen will appear with the word Mail highlighted. Pressing the <ENTER> key will list on the folders in your Barney account. If you wish to add a new folder, press A for Add. Pine will ask you the Folder name to add:. Type in the name for the folder and press <ENTER>. You will see the name of the new folder added to your expanded folder list.

You may save a message to a folder either while you are reading the message, or while you have the message highlighted in the message index. In either of these situations, press S to save. You will then be prompted with a message similar to: SAVE to folder in Mail [postmaster]: . Type the name of the folder you wish to save the message in and press <ENTER>. Your message will be moved to the new folder and marked for deletion in the current folder.

	barney	.gonzaga.edu 5	98			
PINE 4.02 FOLDER LIST Folder: INBOX 26 Messages						
	Local fo	lders in Mail/				
INBOX HPUXAdmin acetmgmt ansys banner comtch	sentmail HPUXPatch act apple bar crosby	saved-messages HPUXsw admin aup calvin ddc	AcctCreate Old-INBOX alumni b5 commarts email			
foleylab hart hpq internship kain listmgmt	gu helpdesk humor issues lab mac	guinfo hk220 imap its labinfo macs	gulabs hoax incidents itss linux macslist			
matlab net nt patches samba	mfiesta netscapeimap nwnet personal security	migrateproc news oldsentmail ppp sentmail-jul-1998	nc novell oracle rad sentmail-jun-1998			
	ClotnList PrevFldr [View Fldr] NextFldr					

You can switch between folders by pressing L and then <ENTER> to get the list of folders, then using the arrow keys to select the folder you want to open, and then pressing Enter again to open the selected folder.

Folders are an excellent way to store email messages for later use and are highly recommended for those that want to keep their e-mail messages after reading them.

Sending E-Mail

To send an e-mail message, type C to compose. You will be prompted for the primary recipient s address (To:), other recipients addresses (Cc:), files to attach (Attchmnt:), and the message subject (Subject:). Any of these may be left blank, except the To: field. After scrolling through the top options with the *<*ENTER*>* key or the down arrow, you will see the cursor resting in the Message Text area. It is in this area which you enter your message.

When you are ready to send the message, simply press X (Control-X) to Send. You will then be prompted with Send Message? At this point you will either type in Y for Yes or N for No. N will take you back to the message editing area. If you wish to cancel the message without sending it, press C for Cancel at the message editing area.

When the cursor is at the To: or Cc: field, you can search either your address book or the Gonzaga White Pages by pressing ^T. After pressing ^T, select whether you want to search your address book or the white pages and then enter the first or last name of the person you are looking for. You select the address you wish to send to by hilighting the person s name and pressing <ENTER>. Note that people are listed even if they don t have an e-mail address.

🗖 📃 barney.gonzaga.edu 5 🔤 🛛	18
PINE 4.02 COMPOSER: SELECT ADDRESS Folder: INBOX 26 Messages	-
.addressbook Personal AddressBook in .addressbook	
Gonzaga White Pages	
Directory Server on whitepages.gonzaga.edu	
String to search for : wood	
°G Help T To complex search °C Cancel	-
4	111

Creating a Signature File

A signature file is a text file whose contents will automatically be appended to the end of outgoing messages. It typically contains information such as your name, e-mail address and organizational affiliation. Pine adds the signature into the message as soon as you enter the composer so you can choose to remove it on a message by message basis. For example:

To create a signature file, press M to go to the main menu, then S to select a configuration option, and finally S to edit your signature. When you are done editing your signature, press X to exit the editor and Y to save your changes. You may also create a .signature file in your home directory using a text editor such as pico, vi, or emacs. This text file is the same as creating the signature directly in Pine.

Attachments

You may attach a file to your e-mail message. To do this, the file must be located in your home directory on Barney. At the Attchmnt: prompt in your message editing area, simply type the name of the file located in your home directory. If you have created a sub-directory in which the file is stored, you must include the name of this directory in your filename. Once you have entered the name of the file, you may complete your message and send it to the recipient. You may attach more than one file to a message. You may also browse files in your home directory by pressing ^T while the cursor is at the Attchmnt:.

There may be times when you receive an attachment that Pine cannot read. Because Pine is a text based system, it is not able to display many types of attachments such Word and WordPerfect documents, spreadsheets, graphics, and html documents. These documents must first be saved in your home directory and then transferred to a computer (typically a PC or a Mac) that is capable of viewing that type of file.

To save an attachment from a message you ve received, open the message, press > to view the attachments, select the attachment to save using the arrow keys, and then press S to save the attachment. Pine will often provide a default file name. If not, you can enter any filename you want and then press <ENTER> to save the attachment as a file in your home directory. You can now transfer the file to a PC or Mac using an FTP application. For more information on FTP, see the document *Transferring Files To and From Barney (FTP)*. This document is also available in the ZagNet Manual.

Using the Pine Address Book

Pine s address book allows you to keep a list of addresses you send mail to so you do not have to remember addresses that are often complex. Each entry in the address book has three required fields which are:

- Nickname: A short, easy-to-remember label to identify the entry. This is what you type in as you are addressing the message in the composer. If there is a matching entry in your address book(s), Pine will extract the corresponding FullName and Address fields to generate the actual address for your message.
- Fullname: A longer field where you can put the full name of the person or organization. Whatever you put as the name here will appear on the message when it is finally delivered.
- Address: The actual e-mail address(es).

To add an alias to your address book, press M to go to the main menu and then A to update your address book. Press the @ key to add an alias to the address book. You will be prompted for the three required elements above. Once these elements are entered, the alias is available for your use. Simply enter the alias in the To: field of your message composer area.

	barney	/.gonzaga.edu 5 📃 🛛 🗉
PINE 4.0	D2 ADDRESS BOOK	Folder: INBOX 27 Messages
HPAdmin	Admin, HPUX	hpux-admin@dutchworks.nl
joan	Allbery, Joan	allbery@gu.gonzaga.edu
barb	Barbara Williams	williams@gu.gonzaga.edu
chris	Chris Gill	gill@its.gonzaga.edu
dale	Dale Deviveiros	deviveiros@foley.gonzaga.edu
calvin	Francis, Greg	francis@calvin.gonzaga.edu
greg	Francis, Greg	francis@gonzaga.edu
gu	Francis, Greg	francis@gu.gonzaga.edu
kai	Kai Uahinui	ka i @gu . gonzaga . edu
larry	Larry Perkins	perkins@spike.gonzaga.edu
laurie	Laurie Hanlon	hanlon_l@gu.gonzaga.edu
matt	Matt Wood	mwood@its.gonzaga.edu
novell	Novell Discussion List	NOVELL@LISTSERV.SYR.EDU
ron	Siewert, Ron	rsiewert@iea.com
tk	Theresa Ketchum	ketchum@gu.gonzaga.edu
mailmqrs	Gonzaga E-Mail Managers	DISTRIBUTION LIST:
-		[Address List]
2 Help	Reddbiliet BineuE	ntry 📱 PrevPage 🗿 AddNew 📓 ComposeTo
	1DS > [View/Update] NextEr	ntry Spe NextPage Delete Delete
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4		P

You may also easily create a distribution list. Each distribution list has a nickname, a full name, and a list of addresses. The addresses may be actual addresses or they may be other nicknames in your address book. They may even refer to other distribution lists. A distribution list is created the same way as an address for a single person; the only difference is that you enter multiple addresses on the Addresses: line by separating each address with a comma.

Printing Your Messages

To print an e-mail message, you must first let Pine know where you would like the message to print. Type help printing at the [*username*]\$ prompt to find the appropriate command.

At the Main Menu in Pine, type S for Setup. Once in Setup, choose P for Printer. You will then be given three options. At this point enter arrow down to the Personally selected print command option and press <ENTER>. When asked Command for custom printer: enter the information which you retrieved from the help printing area in Unix. This printer will then be used each time you print, unless you choose another printer.

Downloading Files using FTP

Transferring files to and from Barney or other server is done using the File Transfer Protocol, more commonly referred to as FTP. Using FTP, you can transfer files to and from Barney regardless of whether you are using a PC, a Mac, a UNIX server halfway around the world, or any other type of computer that supports FTP.

How FTP Works

FTP works by having an FTP client log into an FTP server. Barney is configured as both an FTP client and server so you can both log into and out of Barney using FTP. Personal computers are typically only an FTP client. FTP clients can only log into FTP servers, no one can log into an FTP client. This is done to keep others from logging into a computer without authorization and transferring files to or from that computer. FTP servers must be configured with accounts and passwords to ensure sufficient security.

When logging into an FTP server, an FTP client must enter an account and password. Many FTP servers are configured with an account called anonymous. This account allows a user to login and download files from the server even though they don t have an account on the FTP server. This is commonly used on servers that archive software such as shareware and public domain software and are commonly known as Anonymous FTP Sites. Barney allows anonymous logins for downloading software used for ZagNet.

Once an FTP client has logged into an FTP server, the user is able to view file directories, download and upload files to the server, and even delete files if they have proper authorization.

Logging into an FTP Server

How you log into an FTP server will depend on whether you are using a command line interface such as UNIX or a graphical interface such as Mac or Windows. From UNIX (e.g., Barney) or other command line interface, you would type **ftp server_name** (e.g., **ftp barney.gonzaga.edu**) to log into the specified server. If a successful connection occurs, you will be prompted for your username and password. If you are connecting with an anonymous FTP site, type **anonymous** for the username and your e-mail address as the password. If you have entered a valid username and password, you will then have a prompt from which to enter commands.

Graphical FTP Clients

Graphical user interface (GUI) operating systems such as Mac and Windows normally don t require you to enter commands directly. Regardless of the FTP client software you use on a GUI computer,

	barney.gonzaga.edu	
Name .cstrc .exrc .login news_time profile .sh_history	jdoe ▼ Size Date IK 08/17/97 ① IK 08/17/97 0K 08/10/97 IK 08/17/97 IK 08/17/97 IK 08/17/97 IK 08/17/97 IK 08/17/97 IK 08/17/97	Status Connected. Elle Transfer
	● Automati → → → → Binary	c 3.0.3

you must first open a connection and then enter a username and password. Once you have logged in, you will typically be able to browse files and directories just as you would on your local hard drive. Many of the following instructions have little relevance to GUI users since they typically don t need to enter commands directly. Some FTP client software for GUI computers (e.g., WinQVT for Windows) does require the entering of commands.

Listing Files and Directories

When you are connected to an FTP server, you can view a listing of files on that server by entering the command **ls** or **dir**. This will list all of the files and directories in the current directory. If you FTP into Barney, the current directory starts as your home directory. Here is a typically listing from **ls**:

-rw-r--r-1 franciscis21103Aug613:28ANSYS52drwx----2 franciscis1024Aug1208:40Maildrwxr-xr-x2 franciscis1024May3108:17bin-rw-r--r--1 franciscis27May2915:11forwarddrwxr-xr-x2 franciscis1024Aug217:56manpgascdrwxr-xr-x10franciscis2048Aug515:39public_html-rw-r--r--1franciscis153238Jul1016:27unx_staff.lis-rw-r--r--1franciscis458473Jul1016:27unx_students.lis

Those lines that begin with a d indicate directories (e.g., Mail and bin above) and those that begin with a - are files (e.g., forward above). The number near the center of each listing (e.g., 153238 for unx_staff.lis) is the size of the file in bytes. Finally, the name of the file or directory is at the far right of the listing (e.g., public_html).

If there are a great deal of files in the current directory, you can limit the listing to a select group of files by setting criteria for the **ls** command. For example, **ls** a^* would list only those files that begin with the lowercase letter a.

To list files in your local directory (i.e., where you are FTPing from), the command will vary depending on which FTP client you are using. Common ones include **lls** (local listing), **ldir** (local directory), and **!ls -l** (the ! executes a command on your local computer). If none of these work, check **help** while at the FTP> prompt for a list of available commands.

Changing to a Different Directory

Quite frequently, you will want to transfer files to or from a directory that is not the default directory you logged into. To change to a different directory, you will use the **cd** command. For example, to change to the public_html directory in the listing above, you would type **cd public_html**. Type **cd ..** to go to the parent directory of the current directory. Another option is to enter an absolute path name such as **cd /home/staff/cis/francis**. Following are some examples of changing the current directory:

```
cd manpgasc
cd ..
cd /home/staff/cis/francis
```

Changes to the manpgasc directory in the current directory Changes to the parent directory of the current directory Changes to the directory /home/staff/cis/francis

Once you have changed to the new directory, use the **ls** command will list the files in the new directory.

As with listing files in a local directory, the commands for changing directories also varies depending upon the FTP client you are using. The two most common options are **lcd** and **!cd**. Consult **help** in FTP for the specific command in your FTP client.

ASCII and Binary Files

Files can either be stored as ASCII or binary files. ASCII files are typically text files created by text-based editors such as Notepad, SimpleText, vi or pico. ASCII files contain only 7-bits of data per character while binary files are composed of 8-bit characters. Types of binary files include applications, word processor documents, graphic files, and most other types of files. Most documents generated on a PC or a Mac are binary files.

A special type of Macintosh file is MacBinary; this is a binary file that preserves Macintosh specific information for the file including the type of document and the application that created it. When transferring files from a Macintosh for use on a different type of computer, transfer files using plain **binary** rather than MacBinary.

When transferring files with FTP, you need to set whether to transfer the file as ASCII or binary. If you are unsure which method to use, transfer the file using binary mode. ASCII mode should typically be used for text files and files ending with .uu or .hqx. To set ASCII mode, type **ascii** while connected to an FTP server. For binary mode, type **binary**. To determine which mode you are in, type **type**.

Transferring Files

Once you have connected to the remote FTP server, logged in with a valid user name and password, set the appropriate local and remote directories, and set the correct transfer mode (ASCII or binary), you are ready to transfer files. To transfer files to the FTP server from where you logged in from, use the **send** command. To transfer files from the FTP server to where you logged in, use the **recv** command. Using either **send** or **recv**, you specify the name of the file you want to transfer. For example, to send a file named sample from the local computer to the FTP server, you would type **send sample**. Some FTP clients allow you to use wildcards such as * to transfer many files at once, others do not.

Depending on the size of the file being transferred, the time needed to transfer the file can take a second to several hours. Gonzaga s Internet connection is sufficient to transfer most files in

under five minutes unless the file is very large. If transferring files between two computers on GUnet (Gonzaga s network) or ZagNet (Gonzaga student network), the transfer time will be even shorter. If transferring files over a modem, transfer times can be several hours for large files.

If you need to transfer additional files to or from the same FTP server, change the directories and file types as needed and then transfer the files. There is no limit to the number of times that the directory and file type can be changed in a single session.

If desired, a file transfer can usually be canceled by pressing **Control-C**.

Disconnecting from an FTP Server

When you have completed transferring files to or from the FTP server, you will need to disconnect. For command line users, this is done using the command **quit**. GUI users will normally have a button or menu option to close the connection.

For Additional Help

When you are connected to an FTP server, you can enter the command **help** for a list of commands. Typing **help command** (e.g., **help recv**) will usually provide some additional information on that specific command. While logged into a UNIX server such as Barney, you can enter **man ftp** at the command prompt ([username]\$ on Barney), for detailed information on the use of FTP.

FTP COMMANDS - QUICK SUMMARY

! [command]	Available in some FTP clients. Used to invoke a command that is normally only available from the command prompt. For example, !Is invokes the Is command on the local computer to list files in the current directory.
append local [remote]	Appends the contents of the local file to the end of the remote file.
ascii	Set ASCII transfer mode. Used for text, HQX, and uuencoded files.
binary	Set binary transfer mode. Used for graphics, programs, and most other files other than those listed under ascii .
bye	Close the connection to the FTP server and exit. Same as quit.
cd [remote-directory]	Set the current remote directory to the specified directory.
close	Disconnect from the FTP server but don t exit the FTP software.
delete remote-file	Deletes the specified remote file if user has required permissions.
dir [remote-directory]	List the contents of the specified remote directory. If no directory is specified, list the contents of the current remote working directory. Same as ls .
help [command]	Displays information concerning the specified command. If no command is specified, help lists the available commands.
lcd [local-directory]	Available in some FTP clients. Change the current local directory to the directory specified.
ls [remote-directory]	Same as dir.
open ftp-server	Open a connection to the specified FTP server. FTP must already be running and no connection currently established.
pwd	Display the name of the current working directory.
quit	Disconnect from the FTP server and exit the FTP software.
recv remote-file	Copy the specified remote file to the local working directory using the current transfer mode (binary or ASCII).
send local-file	Send the specified local file to the remote working directory using the current transfer mode (binary or ASCII).
size remote-file	Display the size of the remote file.
status	Show the current status of the FTP client.
user user-name	Log into an already open FTP server as the specified user.

Text Editors on Barney (pico, vi, emacs)

Text editors are programs used to edit text files. Text files are limited to letters and numbers only; they do not include graphics, fonts, or special formatting information found in documents created by word processors. Text files include mail messages, source code, batch files, and configuration files. Text files are the most common type of file you will use on Barney. For this reason, there are several options available to you when you are working with text files.

Text Editors Available on Barney

There are three text editors that are available on Barney. These are **pico**, **vi**, and **emacs**. Each can be run by typing their name at the [*username*]\$ prompt. For extensive help on each of these editors, type man *editor* at the [*username*]\$ prompt. In addition, both **pico** and **emacs** have help systems available while they are running.

Each of these text editors is significantly different from the other. **Pico** is a simple editor with basic functions such as cut and paste, searching, and spell checking. **Pico** was written by the same group that wrote the e-mail software, **pine**, so there are a great deal of similarities between the editor in **pine** and **pico**. Within **pico**, commands are listed at the bottom of the screen. Because of its ease of use and similarity to **pine**, **pico** is the default editor on Barney. Programs such as **tin** (Threaded Internet News) use **pico** whenever an editor is needed. **Pico** is suggested for those users that need some simple text editing without the complexity of **vi** or **emacs**.

Vi is a more sophisticated and complicated editor than **pico**. It has more powerful searching capabilities, can replace blocks of text, jump to line numbers, and a host of other features. Its power comes primarily from its ability to move to precise locations within a file using very few keystrokes. This makes it an excellent editor for configuration files and source code. In addition, vi comes preinstalled on most UNIX systems. This makes moving from one UNIX system to another easier.

Emacs is the most powerful of the three editors. It has customized environments for writing source code in various languages, allows split screens, custom commands, and more. For those users that are going to do a lot of programming or working with large text documents in UNIX, **emacs** can save a lot of time once the initial learning curve is completed. Its sophistication is matched by its complexity.

The remainder of this document will focus on the **vi** editor. Users interested in **pico** or **emacs** should refer to their respective **man** pages, their online help, or other resources.

Vi is a screen-oriented editor. That means that the entire screen is used when editing a file. In order for vi to work correctly, you must be using terminal emulation that supports moving around the screen. VT100 and VT220 are common emulations that support screen editing.

Vi is run by either typing vi or vi *filename* at the [*username*]\$ prompt. If no filename is specified, vi opens a new document. The \sim characters in an empty file are used to indicate empty lines in the file.

Command and Input Modes

Vi operates in two different modes -- command and input. The input mode is used while inserting text into the file. Some commands are available in input mode, but most are only available in command mode. Command mode is used for moving around the file, deleting or inserting blocks of text, and saving the file. In addition, command mode can be used to execute shell commands such as **ls** and **more**.

The ESC (escape) character is used to enter command mode from input mode. ESC can also be used within command mode to cancel a command that has been partially entered. Input mode is entered by (i)nserting or (a)ppending text.

When entering a command in command mode, entering a number before the command will cause the command to repeat that number of times. For example, entering B scrolls the file back one screen and entering 5 then B would scroll the screen back five screens. Note: the $^$ indicates that the CTRL (control) is held down while pressing the letter.

Moving Around Within a File

As stated previously, one of the greatest strengths of **vi** is its ability to move around within a text file using a minimum of keystrokes. You may move by character, word, sentence, paragraph, and page. Following are some commands that can be used to move around within a file. These commands only apply while in command mode.

<u>Scrolling</u>

- ^B Scroll backward one screen
- [^]F Scroll forward one screen
- ^U Scroll backward a half screen
- [^]D Scroll forward a half screen
- ^Y Scroll backward one line
- ^E Scroll forward one line

Context Movement

- W Move forward to beginning of a word
- B Move backward to beginning of a word
- (Move to the beginning of a sentence*
-) Move to the end of a sentence*
- { Move to beginning of prev paragraph
- } Move to beginning of next paragraph

Line/Character Movement

- h Move backward one character
- j Move down one line in same column
- k Move up one line in the same column
- spc Move one right one character
- Move to first real character in previous line
- ^ Move to first real character in current line
- + Move to first real character in the next line
- \$ Move to the end of the current line
- 0 Move to the first character of the current line
- G Goto line number (if # entered) or end of file

Movement by Search

- Search forward for text following /
- ? Search backward for text following ?

*A sentence is defined as a period, !, or ? followed by two spaces or a new line.

/

Remember, you can cause the above commands to repeat multiple times simply by entering a number before you type the command. This is especially useful with the G command, as it will allow you to jump to a specific line anywhere in the file (e.g., 100G jumps to line 100).

Entering and Editing Text

Vi offers several ways to insert and change text. You can insert text beginning at the current character, after the current character, at beginning or end of the current line, or insert a new line above or below the current line. You can also replace existing characters, blocks of characters, and lines. Commands are entered in command mode unless stated otherwise. Remember, many of these commands can be preceded with a number to indicate the number of times (or count) the command should be performed.

	Inserting Text*		<u>Changing Text</u>
i	Insert before current character	r <i>char</i>	Replace current character with <i>character</i>
а	Insert after current character	R text ESC	Replace current character(s) with text
Ι	Insert at beginning of current line	s text ESC	Substitute current character with text
А	Append to end of current line	S text ESC	Substitute entire line with text
0	Insert new line above current line	cw text ESC	Change current word to text
0	Insert new line below current	C text ESC	Change rest of current line to text
ESC	Return to command mode	J	Join next line(s) to end of current line
	Deleting Text		Copying and Placing Text
х	Deleting Text Delete current character(s)	пуу	Copying and Placing Text Yank (cut) <i>n</i> lines and place in buffer
x X		p	
	Delete current character(s)	nyy p P	Yank (cut) <i>n</i> lines and place in buffer
X	Delete current character(s) Delete previous character(s)	p	Yank (cut) <i>n</i> lines and place in buffer Put yanked text after cursor
X dw	Delete current character(s) Delete previous character(s) Delete current word(s)	p	Yank (cut) <i>n</i> lines and place in buffer Put yanked text after cursor
X dw db	Delete current character(s) Delete previous character(s) Delete current word(s) Delete previous word(s)	p	Yank (cut) <i>n</i> lines and place in buffer Put yanked text after cursor Put yanked text before cursor
X dw db dd	Delete current character(s) Delete previous character(s) Delete current word(s) Delete previous word(s) Delete line(s)	p P	Yank (cut) <i>n</i> lines and place in buffer Put yanked text after cursor Put yanked text before cursor <u>Undo</u>

*Entering a command to insert or append text will leave you in insert mode until you press the ESC key.

You can also search and replace text strings using a command in the form, :n,ms/str1/str2/opt. This command will search from lines *n* to *m* for the string *str1*. If it finds *str1*, it will replace it with *str2* depending upon the *opt*ion used. *Opt*ions include g for global, c for confirm, and p for print changes. For example, if I wanted to search lines 100 to 200 for the string tony and replace it with toni with a confirmation of the change for each instance, I would use the command :100,200s/tony/toni/c.

Saving and Quitting vi

When quitting vi, there are several options for saving or throwing away changes to the document.

:wq	Write to current file and quit
:w	Write to current file without quitting
:w file	Write to new file without quitting
:w!	Write to file, ignoring read-only status

- :q Quit (must save first)
- :q! Quit without saving changes
- :e! Re-edit current file, discarding unsaved changes

WARNING: UNIX does not maintain multiple versions of a file like VAX systems do. Unless you specifically write to a different file, you are modifying the original file. Once the changes have been written to the file, there is no way to recover the previous contents of the file.

VI COMMAND QUICK REFERENCE

h

Running vi

vi	Runs vi	and	starts a	new file

Runs vi and opens file vi file

Scrolling

- B Scroll backward one screen
- ^F Scroll forward one screen
- ^U Scroll backward a half screen
- ^D Scroll forward a half screen
- $^{\Lambda}Y$ Scroll backward one line
- ^E Scroll forward one line

Context Movement

- W Move forward to beginning of a word
- Move backward to beginning of a word В
- Move to the beginning of a sentence (
- Move to the end of a sentence)
- Move to beginning of prev paragraph ł
- Move to beginning of next paragraph

Inserting Text*

- i Insert before current character
- Insert after current character а
- Insert at beginning of current line Ι
- Append to end of current line А
- 0 Insert new line above current line
- Insert new line below current 0
- ESC Return to command mode

Deleting Text

- Delete current character(s) х
- Х Delete previous character(s)
- dw Delete current word(s)
- Delete previous word(s) db
- Delete line(s) dd
- Delete lines *n* through *m* :*n*,*m*d
- D Delete from cursor to end of line

Writing Files

- Write to current file and guit :wq Write to current file without quitting :w Write to new file without quitting :w file
- Write to file, ignoring read-only status :w!

Getting More Help

man vi Displays the man page for vi editor man ex Displays the man page for ex (line oriented editor)

Line/Character Movement

- Move backward one character Move down one line in same column
- 1
- k Move up one line in the same column
- Move one right one character spc
- Move to first real character in previous line \wedge
- Move to first real character in current line
- +Move to first real character in the next line
- \$ Move to the end of the current line
- 0 Move to the first character of the current line
- Goto line number (if # entered) or end of file G

Movement by Search

- Search forward for text following / /
- ? Search backward for text following ?

Changing Text

r char	Replace current character with <i>character</i>
R text ESC	Replace current character(s) with text
s text ESC	Substitute current character with text
S text ESC	Substitute entire line with <i>text</i>
cw text ESC	Change current word to text
C text ESC	Change rest of current line to <i>text</i>
J	Join next line(s) to end of current line

Copying and Placing Text

- Yank (cut) *n* lines and place in buffer nyy
- Put yanked text after cursor р
- P Put yanked text before cursor

Undo

- Undo last command u U Restore current line to original state

Quitting and Resetting vi

- Ouit (must save first) :q
- Quit without saving changes :q!
- Re-edit current file, discarding unsaved changes :e!

*Inserting commands will remain in insert mode until the ESC key is pressed.

Student Web Pages on Barney

Introduction

The academic server (Barney) is available for hosting student created web pages. Web pages located on Barney can be accessed by anyone using a browser on the World-Wide Web. These pages might be used for personal information, student projects, entertainment, resumes, or any other information you may wish to provide that you would like others to see.

Restrictions

Anyone that has an account on Barney may have a web page including students, clubs, and employees of Gonzaga. The creation and display of web pages are governed by Gonzaga University s Acceptable Use Policy. The disk space consumed by web pages counts against the total disk space allotment your account is allocated on Barney. The amount of disk space your account is using is displayed each time you telnet into your account.

Location of Web Files on Barney

The web server on Barney cannot access any of the files or directories in your account other than the directory **public_html** located in your root directory. The public_html directory can only be accessed by the web server if the access permissions are set correctly. This prevents others from accessing files in your account without your permission. When your account is setup on Barney, the public_html directory is automatically created for you with the correct permissions.

The file **index.html** is the *default* web page within the public_html directory (or any subdirectory within public_html). This is the web document that will be opened if no specific file is specified in the URL. For example, http://barney.gonzaga.edu/~jdoe will display the index.html file in jdoe s public_html directory while http://barney.gonzaga.edu/~jdoe/resume.html will display the resume.html file in jdoe s public_html directory. It s always a good idea to have an index.html in your public_html directory so people have a starting web page for your account.

File and Directory Permissions

By default, Barney makes any file you create readable and writeable only by you. This is to protect your files from being accessed by others unless you specifically give them permission to read the files. In order for a web page to be readable by the web server, the file and the directory it is in must have public read permissions. When using FTP to transfer files to Barney, Barney will automatically create the file with global read privileges so that you don't have to change these privileges manually.

To make a file readable by everyone, type **chmod 644** *filename* at the \$ prompt, replacing *filename* with the actual name of the file to set. To make a directory readable by everyone, type **chmod 755** *directoryname* at the \$ prompt. Type man chmod for more information regarding the chmod command.

Transferring Files to Barney

HTML documents may be created directly on Barney or may be created on a different computer and then uploaded to Barney. Files can be uploaded to Barney using FTP if there is a direct connection (e.g., your computer is on ZagNet) or modem PPP connection (i.e., connecting via Verio Northwest or other ISP) between your computer and Barney. If you are connecting over a modem and are not using PPP, the file may be uploaded using a modem transfer protocol. For more information on transferring files to Barney, see the section titled *Downloading Files from Barney using FTP* or the handout *Downloading Files from Barney using a Modem*.

Accessing Student Web Pages from the World-Wide Web

Once you have placed your web pages on Barney and have set the access permissions correctly, others may access your pages. The URL (Universal Resource Locator) for your **default** web page is **http://barney.gonzaga.edu/~youruserid**. For example, if your userid was jdoe, the URL for your default page would be http://barney.gonzaga.edu/~jdoe. Your default page is named **index.html** and is located in your **public_html** directory on Barney. Other pages can be accessed directly by entering the name of the web page after your user id. For example, http://barney.gonzaga.edu/~jdoe/resume.html would display the file resume.html in your public_html directory.

Creating HTML Documents

Web pages are commonly referred to as HTML documents because they use the HyperText Markup Language (HTML) to provide formatting information. There are many programs that can create HTML documents including Netscape Navigator 3.0 Gold, Netscape Communicator 4.0, Claris Home Page, Microsoft Office 97 (and earlier versions with free plug-ins from Microsoft), and dozens of other programs. Since HTML documents are simply text documents with special tags to provide formatting information, they can also be created using text editors and word processors. These include text editors on Barney such as pico, vi, and emacs. How you create the documents is arbitrary and depends on your preferences. The web server on Barney doesn t care which program created the web page as long as it is in the correct format.

There are dozens of books on creating web pages and many excellent tutorials and resources on the Internet. A number of classes at Gonzaga also teach web page development.



These options and more are available through LIBRIS: http://libris.gonzaga.edu

GONZAGA LIBRARY CATALOG

Searches for books, media, state and federal documents and titles of magazines and journals held in the Foley Library.

ARTICLE INDEXES / DATABASES

- **ABI Inform** Indexes approximately 800 business, management, and trade journals. Some articles may be available online as full text.
- ATLA Comprehensive index to periodicals, book reviews, scholarly essays, conference proceedings, and books on religion and related fields.
- **Bio &** $Ag \int$ Index to periodicals in agriculture, biology, and related fields.
- **CINAHL** Comprehensive & authoritative index to current published literature in English for nurses and other allied health professionals.
- **Compendex Engineering Index** Major index to engineering periodicals, conference proceedings and related materials. Links through EIVillage.
- **ERIC** (1966 to Present) Index to journal articles and unpublished documents in the field of education.
- Find Law A searchable directory of Internet legal resources.
- **ProQuest Direct** Provides access to summaries of articles from over 5,000 publications including newspapers. Many articles also appear in full-text, full-image format. Available on the GU campus network.
- **Psysch Info** Psychological abstracts from 1887 to the present.
- **PubMed** Access to Medline, the most comprehensive index to the world's medical literature, and additional biomedical information resources.
- **Sociofile** Collection of citations and abstracts reflecting the world's periodical literature in sociology and related disciplines.
- UnCover (1988 to Present) UnCover is a database containing tables of contents of 10,000 plus recent journals. Document delivery of articles located in UnCover is available for a fee.

OTHER LIBRARY CATALOGS

- Washington State and Spokane Area Libraries Gonzaga Chastek Law Library, Whitworth College, Spokane Public, Eastern Washington University, North Idaho College, University of Washington, University of Idaho and other libraries.
- Library of Congress
- California Digital Library

REFERENCE SOURCES AND GOVERNMENT PUBLICATIONS

- Books in Print
- **Dictionaries:** Rhyming Dictionary, Roget's Internet Thesaurus, WWWebster's Dictionary and others.
- **Directories & Phone Books:** AT&T 800 Directory, Canada411, Publishers, Association on the Net and others.
- **Encyclopedias:** Encyclopedia Britannica Online, Encyclopedia Smithsonian, The Catholic Encyclopedia and others.
- **Geography:** CIA World Factbook, The Embassy Page, World Flags, Country Studies and others
- News: CNN, MSNBC, Spokesman Review, UNCG's News & Newspapers Online and others.
- Quotations: Bartlett's Book of Familiar Quotations and The Commonplace Book
- Style Manuals: Citing Electronic Resources, Elements of Style and Pitsco's Launch to Citing WWW Addresses
- Miscellaneous: Nobel Prizes and Statistical Abstract of the United States.

YOUR LIBRARY RECORD

Enter your library card number (found on the your GU ID card, not your social security number) and view your library record: items checked out, overdue, on hold and fines. You can even renew books you have checked out.

INTERLIBRARY LOAN

If you need a book or article that is not located at the Foley Library, you can request to have them sent to you from another library. Request forms for interlibrary loan of books or articles can be found at http://www.foley.gonzaga.edu/ill/index.html. This process can take one to two weeks and is free to Gonzaga students.

GU Catalog Searching Tips

SEARCH	BASIC COMMANDS
KEYWORD	Use when you are:
	 Looking for a particular subject Example: gonzaga university
	 Unsure of the exact wording of a title (keyword search) Example: gone wind
AUTHOR OR NAME	Use when you are:
	 Looking for something BY OR ABOUT a person Example: crosby bing <u>or</u> bing crosby
	 Looking for something BY or ABOUT an organization Example: central intelligence agency
TITLE BROWSE	 Use when you are: Searching the EXACT title of a book, journal or magazine Example: adventures of huckleberry fin journal of higher education
SUBJECT BROWSE	 Use when you are: Searching the EXACT subject heading of a book, journal or magazine Example: art, modern
BROWSE CALL #	 Use when you are: Interested in browsing a CALL NUMBER SECTION Example: hv1400

Assistance is available from the Foley Library Reference Desk 323-5931

If you need any help with your research through out the year, Please ask the Reference Desk or call x5931

Gonzaga University Computer Labs - Fall 2000

<u>Bldg</u> Admin	<u>Room</u> 243	<u>Normal Hours (1)</u> 24 Hours	Type WinNT Mac	<u>Software</u> MS Office 97 Pro(2), WordPerfect 8.0, Internet Explorer MS Office 98(2), ClarisWorks 4.0, Internet Explorer	<u>Print(3)</u> DotMat Laser	Restrictions Lab closed occasionally for classes	<u>Contact</u> Vicki Craigen (x5552)
Admin	134	TBA	Win98	MS Office 97 Pro(2), WordPerfect 8, Netscape	Laser	Lab hours dependent upon tutor availability	Donna Campbell (x6676)
Admin	425	TBA	Mac	MS Office 98(2), Netscape, Desktop Publishing	Laser	Comm Arts students have 24 hr access	John Caputo (x6656)
Foley	ISM	M-Th 8a-8p F 8a-5p, Sat 10a-4p Sun 1p-5p	Win95 Mac	MS Office 97 Pro(2), Internet Explorer MS Office 98(2), Clarisworks, Internet Explorer	DotMat Laser	Open during library hours	Matt Wood (x3861)
Herak	220	ТВА	Various	Dynamic configuration to meet class needs	Laser	Access limited to certain classes	Brett Hendricks (x3910)
Herak	223	ТВА	WinNT	MS Office 97(2), Netscape, Visual Studio 6.0	DotMat InkJet	Lab hours dependent upon workstudy avail Must have a lab account	Brett Hendricks (x3910)
Herak	103/104	M-F 8a-10p	WinNT	MS Office 2000, MS Project, AutoCAD, Visio Express, Netscape, Internet Explorer, MathCAD, Matlab, Ansys, and other Engineering Applications	Laser Color Plotter	Engineering students only Engineering students have 24 hr access	Roger Melvin (x6819)
Hughes	137	M-F 8a-5p	Mac	Biology software	Laser	Biology classes and students only	Sherry Woods (x6626)
Jepson	07	M-Th 9a-10p F 9a-5p, Sat 12p-5p Sun 2p-10p	WinNT Win95	MS Office Pro(2), Netscape, Internet Explorer MS Project, Borland C++, Microsoft Visual C++ 6.0	Laser Color	Lab closed occasionally for lectures	Bob Toshack (x3407)
Music		Office hours	Win98 Mac	MS Office 97(2), Netscape, Music Composition MS Office 98(2), Netscape, Music Composition	Laser	Music students only	Music Office (x6733)
Rosauer	101	M-Th 8a-9p F 8a-6p, Sun 6p-10p	Mac Win95	MS Office 98(2), ClarisWorks, Internet Explorer, SPSS Netscape, PageMaker, Photoshop, educ. software	Laser	Educational students have priority	Jason Gilman (x3660)

(1) Hours of computer labs subject to change.

(2) MS Office includes Word, Excel, PowerPoint. MS Office Pro also includes Access database software.

(3) Some computer labs charge for printing to laser or color printers. Contact that lab for details.

UNIX Quick Reference

The following are commonly used commands on UNIX systems. This include Barney, Chaos, and the Sun workstations in the Computer Science Lab. The commands on Chaos and the Sun workstations may differ slightly from these commands.

The follo	owing format is used for commands:
Italic Bold	indicates a variable that you supply indicates typed exactly as shown
al To re	tes a temporary name for a UNIX command. ias name='command' move an alias: nalias name
	os ay a list of man pages containing <i>keyword.</i> propos <i>keyword</i>
	ches Internet ftp sites for the specified file name. rchie <i>file</i>
ca	ay a calendar for the current month. II splay a calendar for the specified year:

enual for the specified year cal year

cat

Displays the contents of a text file. cat file

cd

Changes current directory to a different directory. cd directory To change to you home directory cd **Directory abbreviations**

- Home directory
- Current (working) directory
- Parent Directory

chmod

Changes permission status for a file or directory. **chmod** *code file* To keep a file private (default for new files) chmod 600 file To give everyone read permission chmod 644 file

compress

Reduces the size of a file and adds a .Z to the file name. compress file To restore a compressed file: uncompress file.Z

cp

Makes a copy of a file. **cp** *file newfile* To copy a file into a different directory: **cp** file directory To inquire before overwriting an existing file: **cp** -**i** file newfile

diff

Compares two files and compares the differences. diff file1 file2

exit

Ends your computer session.

finger

Displays user information at the specified host (computer). **finger** *userid*@*host* For information on people located on Barney finger *userid*

forward

To forward your mail to another account. forward userid@host To stop the forwarding of mail: forward none

ftp

Starts the file transfer program with a remote computer. ftp address

grep

Finds lines in a file matching the specified character pattern. grep -cin pattern file

- -c Lists a count of the lines that matched the pattern
- Ignores case -i
- -n Lists line number for each line

head

Displays the first ten lines of a file. head file

To display the first *n* number of lines of a file: head -n file

jobs

Displays active jobs and their corresponding job numbers. iobs To start a job in the background: job & To return a job to the foreground:

- fg %jobnumber
- To send a running job to the background: <Control>z bg

kill

Terminates a process by its process identification number (pid). **kill** *pid* Strongest form of kill: **kill -9** *pid*

lp

Print a file to the default printer. Ip *file* To print a job to a specific printer. Ip -d printername file

ls

Lists the files and subdirectories in the current directory. **Is -Itad** *filter*

- -I Lists long format (same as II)
- -t Lists sorted by modification time
- -a Lists all files including files beginning with a dot (.)
- -d Suppresses the listing of the contents of a subdirectory

lynx

Runs the text-based web browser. lynx url

mailid

Shows accounts with *keyword* in the user's e-mail address. **mailid** *keyword*

man

Display the **man** ual page for the specified command. **man** command

mesg

Deny or allow access for other users to write to your account. mesg -y Allow users to write to your account. Deny users ability to write to your account.

mkdir

Creates a new directory within the current directory. **mkdir** *directory*

more

Displays the contents of a file one screen at a time. **more** *file* Use **<spacebar>** to scroll forward and **q** to quit.

mv

Moves a file or directory to a different directory. **mv** *file directory* Renames a file or directory: **mv** *oldfilename newfilename* To inquire before overwriting an existing file: **mv** -i *oldfilename newfilename*

news

Display unread announcements.

passwd

Changes account password.

pico

Starts the Pico text editor.

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pine

Starts the Pine electronic mail program.

ps_

Displays process information for processes created by you.

pwd

Display the absolute pathname of the current directory.

rm

Permanently deletes a file. **rm** file To confirm prior to deleting file: **rm -i** file To recursively delete a directory: **rm -r** directory

rmdir

Deletes an empty directory. **rmdir** *directory* To confirm prior to deleting directory: **rmdir** -i *directory*

spell

Checks the spelling of the contents of a file. **spell** *file*

tail

Displays the last ten lines of a file. **tail** *file* To display the last *n* number of lines of a file: **tail** -*n file*

telnet

Starts a telnet session with a remote computer. **telnet** *address*

tin

Starts threaded Usenet news reader.

vi

Starts the vi text editor with a file. vi *file*

w_

Displays a list of who is logged onto Barney.

wc

Counts lines, words, and characters in a file. wc file

xmodem

Transfer a file via modem (non-PPP) **xmodem -rstb** *file*

- -r Receive a file (fm local computer to server)
- -s Send a file (fm server to local computer)
- -t Transfer a text file
- -b Transfer a binary file

ytalk

Talk with another user that is logged onto a computer. ytalk username@host

Purchasing a Computer

If you are planning on purchasing a computer, you may want to take a couple of things into consideration before making the purchase. This handout doesn t attempt to offer any definite answers but it may be useful when making a purchasing decision. Keep in mind that the information contained in this document was written in August of 2000. The computer market changes so rapidly that the information that was valid when this document was written may not apply today.

Considerations

There are a number of things to keep in mind when purchasing a computer. These include what field you are entering, whether or not you will be working on a network, what type of work you will be doing on the computer, and how often you can afford to replace the computer. You should also take into consideration the entertainment side of computers since many personal computers that are purchased for business purposes are also used to play games.

Who to Ask

You might think that the logical answer would be one of the computer gurus down the hall, a computer support person at Gonzaga, or a salesperson at a computer store. While they may give you an abundance of technical details about computers, they may not necessarily know your needs. The best source of information can be from those people that are working in the same field; they often have experience in areas you ll be working and they may have gone through the same ordeal themselves. Professors can also be a good source of information; they should know the current needs of their field and should be able to give you some good pointers. You might also try local user groups; the people that often attend user group meetings are new computer owners from all walks of life. Other sources of information include computer magazines, trade journals, and the Internet.

The most important thing to consider when asking others for their recommendations is to back up their information with information from other sources. This is especially true when looking at a particular computer vendor. You should check on the company s technical support ratings, satisfaction ratings, whether or not they have toll free technical support, etc. Purchasing a computer is a major expense and should be evaluated seriously before making a purchase.

Purchasing through Gonzaga University

Students are able to purchase some brands of computers through the campus at reduced pricing. Apple Macintosh and several brands of PCs are available at educational discounts through Purchasing. For more information on purchasing through Gonzaga, call Purchasing at 323-5672.

Software

There are thousands of software packages available for both the PC and Macintosh platforms. The software that will be most commonly used will be word processors, Internet software, presentation programs, and spreadsheets. Most of Gonzaga has standardized on Microsoft Office for word processing (Word), spreadsheets (Excel), and presentations (PowerPoint). If you choose to use a different package, try to select one that is able to read documents created by Microsoft Office products. Microsoft Office is available in the campus bookstore.

Typical Configuration for Students

The following are typical configurations available in August 2000. They are meant to be used as a baseline for making a purchasing decision. These systems will not meet the needs of everyone.

PC w/Windows 95/98

Processor: Memory: Hard Disk: CD-ROM: Monitor: Modem*: Sound: Network**:	Minimum Intel Celeron 600 MHz 64 MB RAM 4.3 GB 40x 15 SVGA 56 kbps v.90 16-bit SoundBlaster SMC 9432TX	Recommended Pentium III 700 MHz 96 MB RAM 6.4 GB DVD 17 SVGA 56 kbps v.90 32-bit SoundBlaster SMC 9432TX
Macintosh		
Processor: Memory: Hard Disk: CD-ROM: Monitor: Modem*: Sound: Network**:	Minimum iMac or G3 PowerMac 64 MB RAM 4.0 GB Standard Speed 15 Color 56 kbps v.90 Built-in Built-in	Recommended iMac 333 or G4 PowerMac 96 MB RAM 6.4 GB DVD 17 Color 56 kbps v.90 Built-in Built-in

*Most consumer computer models come with either a modem or no communication device. In order to use ZagNet, you will need to purchase a 10BaseT Ethernet card separately (see note below). Some manufacturers either include an Ethernet card or include it as an option. Apple includes Ethernet with all new Macintosh computers. **To access ZagNet, you must have an Ethernet card. Gonzaga will support only SMC (PC) and Apple or Asant (Mac) 10BaseT Ethernet cards. If you are not planning to connect to ZagNet or other network, then an Ethernet card is not necessary.

Internet Worksheet

Introduction

Every computer connected to ZagNet requires certain address information that will uniquely identify it to the network and will allow it to communicate with other computers on the Gonzaga campus and the Internet. The following worksheet will determine the values for your computer.

Basic Configuration Information

The following information is required in order for your Internet connection to work properly:

IP Address:	147.222. (e.g., 147.222.131.125)			
	The IP address is the unique identifier for your computer. It is a series of four numbers separated by periods. The periods are required whenever using an IP address. All IP addresses on campus begin with "147.222.". For residence halls, the third number specifies the residence hall (see back of this form) and the fourth number is the specific port number in the residence hall. The port number is written on the wall jack where you connect the network cable.			
Router/Gateway Address:	147.222.254 (e.g., 147.222.131.254)			
	The router/gateway address is unique for each residence hall. Only the third number of the four is different depending upon the residence hall. The router/gateway addresses for each of the residence halls is on the back of this form.			
The following information is the same for each of the residence halls:				
Subnet Mask:	255.255.255.0			

This is also known as a "Class C" address.

DNS/Name Server Address:	147.222.1.253
Backup DNS Server:	147.222.2.253
Search Domain:	gonzaga.edu

Additional Information

The following information is used by various Internet applications such as e-mail clients, Usenet news clients, etc.

SMTP/POP Server:	barney.gonzaga.edu
NNTP/News Server:	news.gonzaga.edu
LDAP Directory Server:	whitepages.gonzaga.edu
Web Server*:	http://barney.gonzaga.edu

*This is the web server where student web pages are located. The official Gonzaga web server is http://www.gonzaga.edu.

Location	Address Group	Gateway Address	Subnet Address
301 Boone	147.222.131.xxx	147.222.131.254	255.255.255.0
801 Boone	147.222.132.xxx	147.222.132.254	255.255.255.0
Alliance	147.222.133.xxx	147.222.133.254	255.255.255.0
Burch	147.222.134.xxx	147.222.134.254	255.255.255.0
Campion	147.222.135.xxx	147.222.135.254	255.255.255.0
Crimont	147.222.136.xxx	147.222.136.254	255.255.255.0
Cushing	147.222.137.xxx	147.222.137.254	255.255.255.0
Desmet	147.222.138.xxx	147.222.138.254	255.255.255.0
Dooley	147.222.139.xxx	147.222.139.254	255.255.255.0
Dussault	147.222.140.xxx	147.222.140.254	255.255.255.0
Lincoln	147.222.141.xxx	147.222.141.254	255.255.255.0
Madonna	147.222.142.xxx	147.222.142.254	255.255.255.0
Rebmann	147.222.143.xxx	147.222.143.254	255.255.255.0
Roncalli	147.222.144.xxx	147.222.144.254	255.255.255.0
St. Catherine	147.222.145.xxx	147.222.145.254	255.255.255.0
St. Monica	147.222.146.xxx	147.222.146.254	255.255.255.0
Sharp Apt/House	147.222.147.xxx	147.222.147.254	255.255.255.0
Welch	147.222.148.xxx	147.222.148.254	255.255.255.0
Chardin	147.222.149.xxx	147.222.149.254	255.255.255.0

ZagNet Information for Residence Halls



Network and Computer Resource Acceptable Use Policy

Section 1: Introduction

- {a} This policy is established to make users of Gonzaga University s computing resources aware of their privileges and responsibilities.
- *{b}* This policy is established to maximize the value of those resources to the university community while permitting maximum freedom of use consistent with law, the University s mission statement, the Student Handbook, the Personnel Policies and Procedures Manual, the Faculty Handbook, and a productive environment. Any use of Gonzaga University computing resources which violates policies contained in these manuals and handbooks also violates this policy; nothing in this policy shall contradict existing University policy.
- *{c}* Violation of this policy can result in reprimand, reduction or loss of computing privileges, and/or referral to University authorities for disciplinary action. Violation of law may result in referral to appropriate authorities.
- *{d}* This policy provides general guidelines regarding the use of GUnet. Refer to http://www.gonzaga.edu/tech/aup/ for specific examples of acceptable and unacceptable uses of GUnet as defined by this policy.

Section 2: Definitions

- *{a} GUnet* -- the physical network media and the attached computers and software owned or controlled by the University. GUnet includes ZagNet, the student network connecting the residence halls to the campus network.
- *{b}* Internet -- the global computer network composed of millions of computers and thousands of networks.
- *{c}* Logged on -- connected to a service with a non-public user identification (e.g., personal account).
- *{d} Resource --* any computing device, peripheral, software, or related consumable (e.g., paper, disk space, central processor time, network bandwidth) owned or controlled by the University.
- *{e}* Service -- any software that makes a computer s files or other locally stored information available for use by another computer or facilitates the transfer of data between two remote computers. Services include, but are not limited to, web, file, and e-mail server software.
- *ff* Spam -- unsolicited mass e-mail for the purpose of advertising a service, personal gain, or other inappropriate use.

Section 3: General Usage Statement

- *{a}* Network and computing resources at the University are provided primarily to support the mission of the University. Users may occasionally use GUnet for personal needs as long as such use is consonant with established University policy and does not inhibit academic or administrative use of GUnet.
- *(b)* The University cannot provide, and will not be responsible for, software kept on personally owned computers, nor are they responsible for the installation, repair, maintenance or upgrade of personally owned hardware.
- *{c}* Users should not leave a computer logged on if the user will be away from the computer for an extended period of time (e.g., two hours) or the computer is in an unsecured area. Data on local hard drives should be secured either through password protection or physical security (e.g., locked office) when the user is not present.
- $\{d\}$ Personal accounts are private and should not be shared with others.
- *{e}* The use of University resources, including GUnet, for political gain or exclusive personal gain shall not be permitted.

- *{ff}* The University may restrict the use of computing and network resources. This includes blocking spam messages and deleting user files and mail to conserve disk space on University owned computers.
- *{g}* Employees, students, and other authorized users may post electronic documents and images (e.g. web pages) for public access provided that those documents conform to policies contained within the documents listed in Section 1*{*b*}* and United States and international copyright law.

Section 4: Unacceptable Uses

- $\{a\}$ Using GUnet for any unlawful activity.
- *{b}* Sending spam or creating or retransmitting chain e-mail messages.
- *{c}* Sending e-mail from another user s account.
- {d} Altering the header of an e-mail message to prevent the recipient from determining the actual sender of the e-mail.
- {e} Logging into or using any computer account or accessing, modifying, or creating any files without the account owner s permission.
- *{ff}* Introducing new services or resources (e.g., personal web server) or altering existing services or resources (e.g., registering personal domain name) on GUnet without the approval of Information Technology Services.
- *{g}* Transmitting, without authorization, information proprietary to the University or information that could be construed as a statement of official University policy, position, or attitude.
- *{h}* Distributing information encouraging the patronage of network sites containing material prohibited by policies contained within the documents listed in Section 1{b}.
- *(i)* Wasting resources such as print services, disk space, and network bandwidth.
- *{j}* Intercepting network traffic without authorization.
- {k} Using GUnet for any activity that results in degradation of University provided services, denies services to other GUnet users, or jeopardizes the security or capabilities of GUnet.

Section 5: Privacy

- {a} Under ordinary and normal circumstances, a user s computer files -- including electronic mail -- are considered private. In order to correct system problems or investigate misuse of resources, it may be necessary for system administrators to examine users files (including e-mail and network traffic). In such cases, user privacy will be respected to the extent possible consistent with University policy and the law.
- *{b}* Personal web pages and e-mail addresses may be listed on University directories unless the user specifically requests that this information be kept confidential.

Section 6: Agreement

- {a} I understand that access to GUnet is a *privilege* and not a right. I acknowledge that failure to conform to this policy statement may result in revocation of my GUnet account(s) and/or network access. Furthermore, disciplinary action consistent with University policy may be taken by the appropriate University officers (e.g., Student Life, Department Chair, supervisor) and illegal activities may be referred to the appropriate authorities.
- [b] I understand the above stated conditions for accessing GUnet and the Internet, and I agree to abide by these terms and conditions. I understand that certain material found on the Internet is offensive to some people and that I access the Internet of my own free will. Furthermore, I request access to Gonzaga University computing resources and/or an account on GUnet.

Name of user (printed)

Signature of user

Date